

Annex 1  
to the Rules for conferring academic ranks  
(associate professor (docent))  
The form

**Information**  
**about the applicant for the title of associate professor (docent)**  
**specialty 20500 – Materials Engineering (05.17.00 – Chemical Technology)**

1	Full name	Gulnur Kalimuldina
2	Scientific (academic) degree, date of award	Ph.D., 20 Sept 2017
3	Academic title, date of award	-
4	Honorary title, date of award	-
5	Position (appointed to the position)	By № 20 contract of 14.02.2012, "Nazarbayev University" was appointed to the position of Teaching Assistant then Postdoctoral Scholar. Currently holds Assistant Professor position.
6	Seniority of scientific, scientific and pedagogical activity	12 years in total, 5 years of scientific and pedagogical position: 3 years as a Postdoctoral Scholar, 2 years as an Assistant Professor
7	Number of scientific articles after defending a dissertation (associate professor)	After defending the dissertation, she has a total of 33 published scientific works, including: 1 – in recommended journals by Ministry; 31 - in international peer-reviewed scientific journals included in Web of Science Core Collection database; 31 in Scopus.
8	The number of monographs, textbooks, single-written educational (training) manuals published over the past 5 years	-

9	Persons defending a thesis under his leadership and having a degree	-
10	The laureates, prize-winners of national, international and foreign competitions, exhibitions, festivals, awards, and olympiads prepared under his leadership.	<ul style="list-style-type: none"> <li>• Supervised NU undergraduate student who received awards from YRA (<a href="https://yrascience.kz/">https://yrascience.kz/</a>) for student projects from 2019-2020: FRIP grant (2019), " Development of tactile sensors applying PVDF material". Supervising Nursultan Turdakyn (BSc, SEDS).</li> <li>• Supervised student finalists in the Student Energy Challenge 2023 from KAZENERGY (Zhassulan Turar (3<sup>rd</sup> year UG student) and Merey Sembay (3<sup>rd</sup> year UG student)).</li> </ul>
11	The champions or prize-winners of the World Universiades, the championships of Asia and the Asian Games, the champion or prize-winner of Europe, trained under his leadership,	-
12	Additional Information	<p>Hirsch Index – 12 (Google Scholar).</p> <p>2023: The State Scientific Scholarships for Young Scientists from Ministry of Higher Education and Science</p> <p>2023: Receiver of the award “Woman Researcher in Renewable Energy Sources” from EY and KAZENERGY</p> <p>2016: TEPCO Memorial Foundation Japan, international conference attendance grant</p> <p>2016: Corporate Fund Japan, international conference attendance grant</p> <p>2013: The Monbukagakusho Scholarship by the Japanese Ministry of Education, Culture, Sports, Science and Technology</p> <p>2010: The Bolashak International Scholarship</p> <p>2 Kazakhstani patents</p> <ul style="list-style-type: none"> <li>•G. Kalimuldina, Y. Nurmakanov, R. Kruchinin,</li> </ul>

		<p>“Method for preparation a flexible wearable single-electrode triboelectric nanogenerator”, patent #7065, issued 29.03.2022.</p> <p>•G. Kalimuldina, N. Turdakyn, Z. Bekezhankyzy, “Method of producing flexible high-performance piezoelectric nano-generator”, patent #7643, issued 02.12.2022.</p> <p><b><u>PI of the projects:</u></b></p> <ul style="list-style-type: none"> <li>▪ “Mechanical energy harvesting system based on hybrid nanogenerators” 2022-2024 – Ministry of Education and Science of the Republic of Kazakhstan grant – USD 170,000</li> <li>▪ “Novel Approaches on Interface Strengthening between Metal Surface and Polymeric Material” 2023-2025 – NU CRP grant – USD 450,000</li> <li>▪ “Smart Robotic Grippers Integrated with Novel Triboelectric Sensors” 2023-2025 – NU FDCRPG grant – USD 150,000</li> <li>▪ “Self-charging rechargeable lithium-ion battery” based on mechanical energy harvesting 2020-2022 – FDCRPG NU grant – USD 60,000</li> <li>▪ “Development of wearable self-charging power unit” based on mechanical energy harvesting 2020-2022 – MES Young Researchers grant – KZT 77,851,006</li> <li>▪ “Mechanical energy harvesting by triboelectric nanogenerator” – NU Social Policy Grant – USD 10,000</li> </ul> <p><b><u>Participating in other projects as a co-PI or leading researcher:</u></b></p> <ul style="list-style-type: none"> <li>▪ “Engineering of Multifunctional Materials of Next Generation Batteries” (AP09259764) MES RK, 75 mln tenge for 2021-2023 years.</li> <li>▪ “Three-dimensional all solid state rechargeable batteries” 2020-2022 –NU CRP grant – USD 450,000</li> </ul>
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**Dean of School of Engineering and Digital  
Sciences, Nazarbayev University**

Prof. Elizabeth Arkhangelsky